PATENT COOPERATION REATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

MORROW, Joy D. SMART & BIGGAR P.O. Box 2999, Station D 900-55 Metcalfe Street, Ottawa, Ontario K1P 5Y6 CANADA

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

30.09.2004

Applicant's or agent's file reference 50456-16

International application No.

International filing date (day/month/year)

08.08.2003

Priority date (day/month/year)

16.08.2002

IMPORTANT NOTIFICATION

PCT/CA 03/01189
Applicant

CYTEC CANADA INC. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

<u>o</u>))

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 **Authorized Officer**

Brell, S

Tel. +49 89 2399-7271



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 50456-16				FOR FURTHER	R ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/CA 03/01189				International filing date 08.08.2003	e (day/mont	h/year)	Priority date (day/month/year) 16.08.2002		
1	mation 7F9/5		ent Classification (IPC) or bo	th national classification	and IPC				
1 ''	licant TEC	CAN	ADA INC. et al.						
1.	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2.	2. This REPORT consists of a total of 5 sheets, including this cover sheet.								
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
	These annexes consist of a total of sheets.								
3.	3. This report contains indications relating to the following items:								
	ı	×	Basis of the opinion						
	i		Priority						
	Ш		. •	pinion with regard to	novelty, in	ventive step	and industrial applicability		
	 III □ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV □ Lack of unity of invention 						,,		
	٧	\boxtimes	· · · · · · · · · · · · · · · · · · ·	nder Rule 66.2(a)(ii) w		to novelty, i	nventive step or industrial applicability;		
	VI		Certain documents cited	d					
	VII		Certain defects in the in	ternational application	n				
	VIII		Certain observations on	the international app	lication		gas states (# 15		
Date	of sub	miesio	on of the demand		Date of c	ompletion of t	his report		
Dale	OI SUD	missic	in or the demand		Date of C	ompletion of t	ins report		
02.03.2004					30.09.2004				
Name and mailing address of the international preliminary examining authority:					Authorize	Authorized Officer			
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d				Sepmu d	Kyriaka	kou, G			
Fax: +49 89 2399 - 4465					Telephon	e No. +49 89	2399-7835		

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/CA 03/01189

I. Basis of the	report

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages										
	1-1	8	as originally filed								
	Cla	ims, Numbers	•								
	1-1	3	as originally filed								
2.	Wit lang	n regard to the language , all the elements marked above were available or furnished to this Authority in the juage in which the international application was filed, unless otherwise indicated under this item.									
	The	hese elements were available or furnished to this Authority in the following language: , which is:									
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).								
		the language of pub	lication of the international application (under Rule 48.3(b)).								
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).								
3.	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 										
		contained in the inte	rnational application in written form.								
		filed together with the international application in computer readable form.									
		furnished subseque	ntly to this Authority in written form.								
			ntly to this Authority in computer readable form.								
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.								
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.								
١.	The	amendments have r	esulted in the cancellation of:								
		the description,	pages:								
		the claims,	Nos.:								
		the drawings,	sheets:								
This report has been established as if (some of) the amendments had not been made, since to been considered to go beyond the disclosure as filed (Rule 70.2(c)).											
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this								
6.	Add	litional observations, i	if necessary:								

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/CA 03/01189

- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims Claims

No:

1-13

Inventive step (IS)

Yes: Claims

Claims No:

1-13

Industrial applicability (IA)

Yes: Claims

1-13

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Cited documents

WO-A-0187900 (=D1) WO-A-0016902 (=D2) WO-A-9723490 (=D3) EP-A-1182197 (=D4)

Patent Abstr.Japan vol.012, n0 .365 &JP 63119490 (=D5)

Chem.Reviews 99, p. 2071 (1999) (=D6)

The indicated designation is used throughout the examination procedure

2. Certain published documents (Rule 70.10)

Application No Patent No	Publication date (day/month/year)	Filing date (day/month/year)	Priority date (valid claim) (day/month/year)
WO-A-03051894	26.03.2003	13.02.2002	14.12.2001
WO-A-02079212	10.10.2002	28.02.2002	30.03.2001

3. Novelty(Art.33(2)PCT)

3.1The subject matter of the present claims 1-13 relates to quaternary phosphonium and imidazolium salts wherein the anion is a sulfate ester, a phosphonate diester or a phosphonate ester. The said salts are not specifically disclosed in the prior art D1-D3documents and can therefore be considered as a novel selection from the said documents.

3. Inventive step(Art.33(3) PCT)

- 3.1 The object of the present invention is to provide compounds usefull as polar solvents
- **3.2** The prior art documents D1-D4 which disclose structurally similar compounds having the same utility are considered to be especially relevant.
- 3.3 The Application does not contain any experimental data for the alleged utility of the claimed compounds. Taking the above into account it could be postulated that the previous defined problem has not be solved. The technical problem which is solved by the claimed compounds, on the basis of which the question of inventive step has to be decided, would be the mere provision of further or alternative chemical compounds as such, regardless of their likely useful properties. But a chemical compound is not patentable per se as long as it did not manifest itself in a valuable property in the widest sense, an effect or an unexpected property. Furthermore from the prior art D1-D4

INTERNATIONAL PRELIMINARY International application No. PCT/CA 03/01189 EXAMINATION REPORT - SEPARATE SHEET

documents it is known that structurally similar compounds can be used as polar solvents. It has also to be pointed out that the claimed compounds are considered as a selection from the D1-D3 documents. Thus, the subject-matter of claims 1-13 on file. does not involve an inventive step and does not satisfy the criterion set forth in Article 33(3) PCT.